

What is claimed is:

1. A multi-channel induction accelerator, comprising:
 - 5 an injector block;
 - a drive source;
 - output systems; and
 - 10 a multi-channel induction acceleration block, which is made in the form of an aggregate of one-channel linear induction acceleration blocks (including those that are placed parallel with one to other), each of which is made in the form of a sequence of linearly connected acceleration sections, each of which, in turn, is made in the form of one or more magnetic inductors enveloped by conductive screening
- 15 2. The multi-channel induction accelerator of claim 1, in which:
 - 15 at least one of the conductive screens is made in a such manner that it envelops, at least two acceleration sections, which belong to different one-channel linear induction acceleration blocks.
- 20 3. The multi-channel induction accelerator of claim 2, in which:
 - 20 the multi-channel induction acceleration block is composed in accordance with the design scheme of the acceleration block of the multi-channel induction linear accelerator.
- 25 4. The multi-channel induction accelerator of claim 2, in which:
 - 25 the multi-channel induction acceleration block is configured in accordance with the design scheme of the acceleration block of the multi-channel induction undulation accelerator.